

Information for Installing

Imperial Plate Prism Glass

For Architects, Contractors
and Dealers



Why use small squares of
Prism Glass when we furnish
Pressed Prism Plates
with ground and polished
backs, in any size to 54"x72"

Also a Word About

Imperial Plate Ornamental Glass

Sold by Jobbers Everywhere

Pressed Prism Plate Glass Co.
Morgantown, W. Va.

Chicago Sales Office, 512 Monadnock Bldg.
New York Sales Office, 1170 Broadway.

For information about
Imperial Plate Ornamental Glass
see page 15 of this booklet

THE within described products have been developed by our Company at great expense by the use of special machinery, and all processes and machines are fully protected both in this and foreign countries by letters patent.

We are the only manufacturers of these products, and all parties are warned against their unauthorized use. All infringements will be vigorously prosecuted.

Note our Trade Mark on the front cover.

TO GET OUR PRODUCTS SPECIFY

Imperial Plate Prism Glass
Imperial Plate Ornamental Glass
and

Imperial Skylight Prism Glass
made by the

Pressed Prism Plate Glass Co.
of Morgantown, W. Va.

giving the angle or style of pattern wanted.

18/5

The A. B. C. of Prism Lighting



No Mystery About the Use of **Imperial Plate Prism Glass**

Only a few angles are required to meet all
conditions of lighting. We make them all

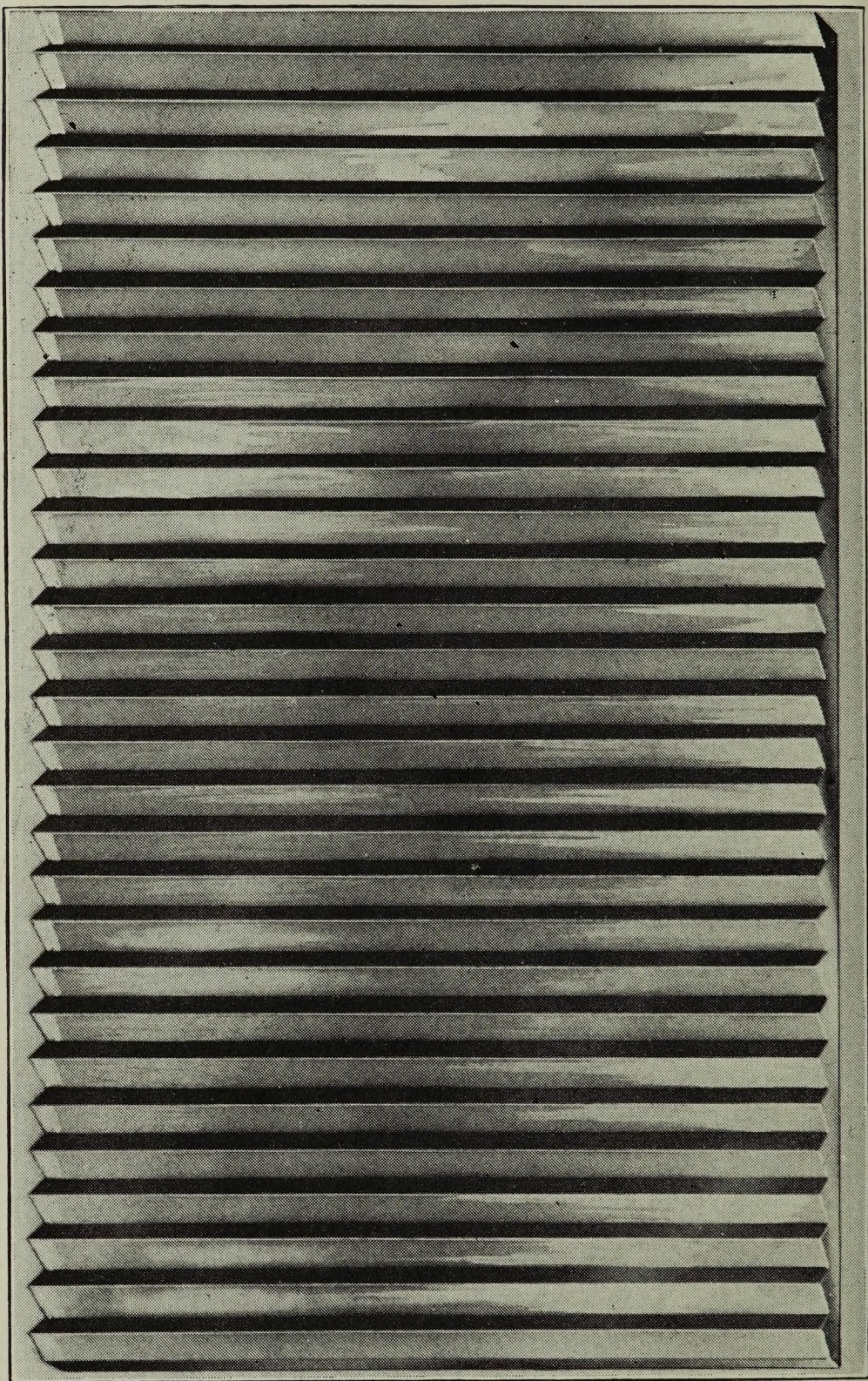
For Sale by Jobbers throughout the Country

Write for prices and samples

Pressed Prism Plate Glass Co.
Morgantown, W. Va.

Chicago Sales Office, 512 Monadnock Bldg.

New York Sales Office, 1170 Broadway.



"Imperial Plate Prism Glass"

All Angles for Vertical Installation

Ground and polished one side.

In cut sizes up to 54"x72" or 72"x54" or in case lots.

Imperial Plate Prism Glass

Our Large Plates of prism glass are 54" wide and 72" high, or 72" wide and 54" high, or can be furnished as desired in single lights of smaller cut sizes. They are pressed, ground and polished on one side, and have the brilliancy and finish of polished plate glass. It is as much superior to the common, rolled sheet prism, as polished plate is to the ordinary window glass, and the street surface of our glass being polished, corresponds with other plate glass used in the building, and does not detract from its appearance, like the rolled sheets or small wired four-inch prism squares. Architects will appreciate this.

In Efficiency, the large plate or light being cut to fill the entire sash of the window opening, the effect of illumination is largely increased over the *old style 4x4-inch* prism plates framed up with a net work of wires which obstruct the light.

No Rust or Leaks. Our prism glass being in one plate, and not framed up like the small 4-inch prisms, there is no metal work to corrode or wear out, requiring costly renewal, and there can be no leaks in the corners to cause damage from dust, snow or rain.

Easily Cleaned. Our large, polished prismatic lights are easily cleaned like ordinary glass. They do not have hundreds of corners, inside and outside, to catch the dust and dirt, like the small 4x4-inch prisms put together with wires or bars in the old way.

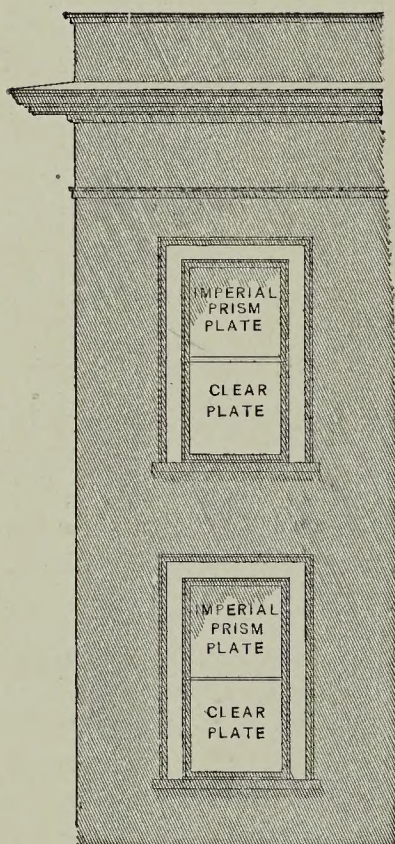
Imperial Plate Prism Glass is a beautiful product—it is well annealed and tempered and cuts with a diamond like plate glass, and has the same strength and durability.

It should be used in upper sash of windows in connection with clear glass in the lower sash, and when so installed it makes an "ideal window," and is a most effective and economical way of lighting interiors at a great saving of gas or electricity.

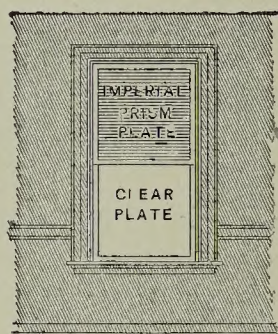
Plan for "Ideal Window"

for Office Building.

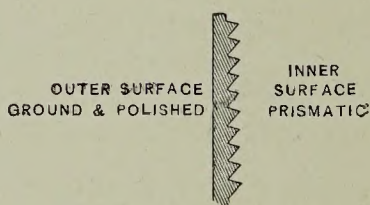
"Imperial Prism Glass" in upper sash
and clear plate glass in lower sash.



EXTERIOR



INTERIOR



SECTION

All windows on both street frontages of the
new 21 story

Fisher Building Annex

glazed in above manner. It is the best lighted
office building in Chicago.

How to Order Prism Glass

WHEN ordering prism glass always state which is the width and which the height of the glass, naming the width first. If no other directions are given, a light ordered 24 x 36 is understood to be 24 inches wide and 36 inches high, and if ordered 36 x 24 is understood to be 36 inches wide and 24 inches high. This is very important in ordering prism glass.

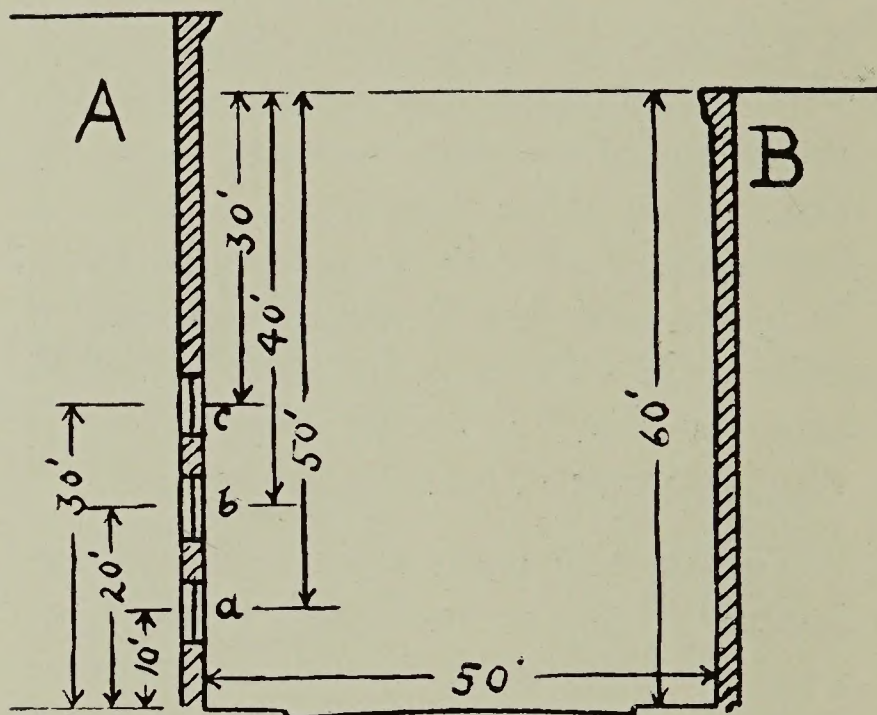
To ascertain the proper prism to use in order to get the best results in any case, simply divide the height of the opposite building (above the center of the window in which the glass is to be installed) by the width of the street, alley or court.

The quotient "Q" is equal to the *height of opposite building* divided by the width of the street, alley or court.

When quotient "Q" is from

O to	.46	use	our	D	Prism	
.46	“ .60	“	“	CC	“	} Smooth side of glass outside
.60	“ .74	“	“	C	“	
.74	“ .92	“	“	B	“	
.92	“ 1.11	“	“	I-B	“	} I-B—inverted B I-C—inverted C
1.11	“ 1.26	“	“	I-C	“	
1.26	“ 1.43	“	“	A	“	} Prisms towards street
1.43	“ 1.53	“	“	B. R.	“	
1.53	“ 2.90	“	“	C. R.	“	
2.90	and over	“	“	C. C. R.	“	

Example



Prism Glass is to be installed in windows a, b, c, of building A, these windows being respectively 10, 20 and 30 feet above the street. The total height from the ground to the roof of the opposite building B is 60 feet and the width of the street 50 feet.

The height then of the opposite building B above the center of window (a) is 60 feet minus 10 feet or 50 feet. This divided by 50 the width of the street gives the quotient "Q" or 1.00.

Since "Q" in this case is between .92 and 1.11 the proper prism *to use* for window "a" is "I-B."

In the same way for window (b) the height of the opposite building above the center of the window is 60 feet minus 20 feet equals 40 feet; and 40 feet divided by width of street, 50 feet, gives quotient of .80; and .80 being between .74 and .92 for window "b," use "B" prism.

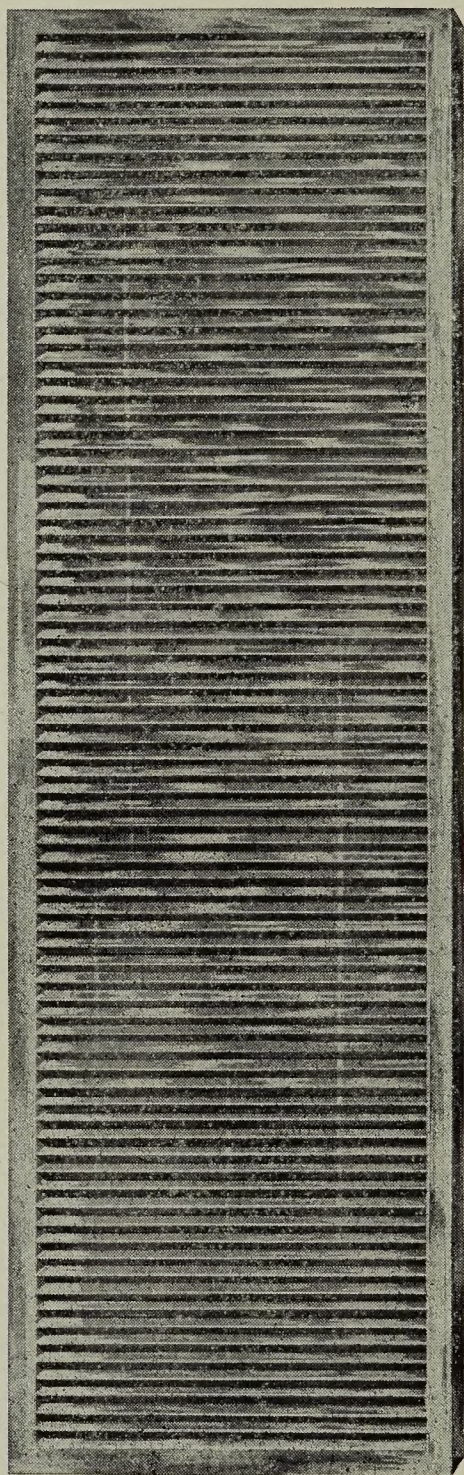
For window (c) the height of the opposite building above the center of the window is 60 feet minus 30 feet, which leaves 30 feet; and 30 feet divided by the width of the street 50 feet, gives us a quotient of .60, therefore the "CC" prism *should be used* for window "c."

In all cases prism glass should be set as close to the outside line of building as possible.

"Canopy" or "Skylight" prism glass may be used at the discretion of the architect in places where the quotient is above 1.43. (See page 11.)

18 INCHES

60 INCHES



60 INCHES

Imperial Skylight Prism Glass.

One-half inch backs not ground or polished.

Weight about 8 pounds per square foot.

Imperial Skylight Prism Glass.

Made in unit plates up to 18" x 60"

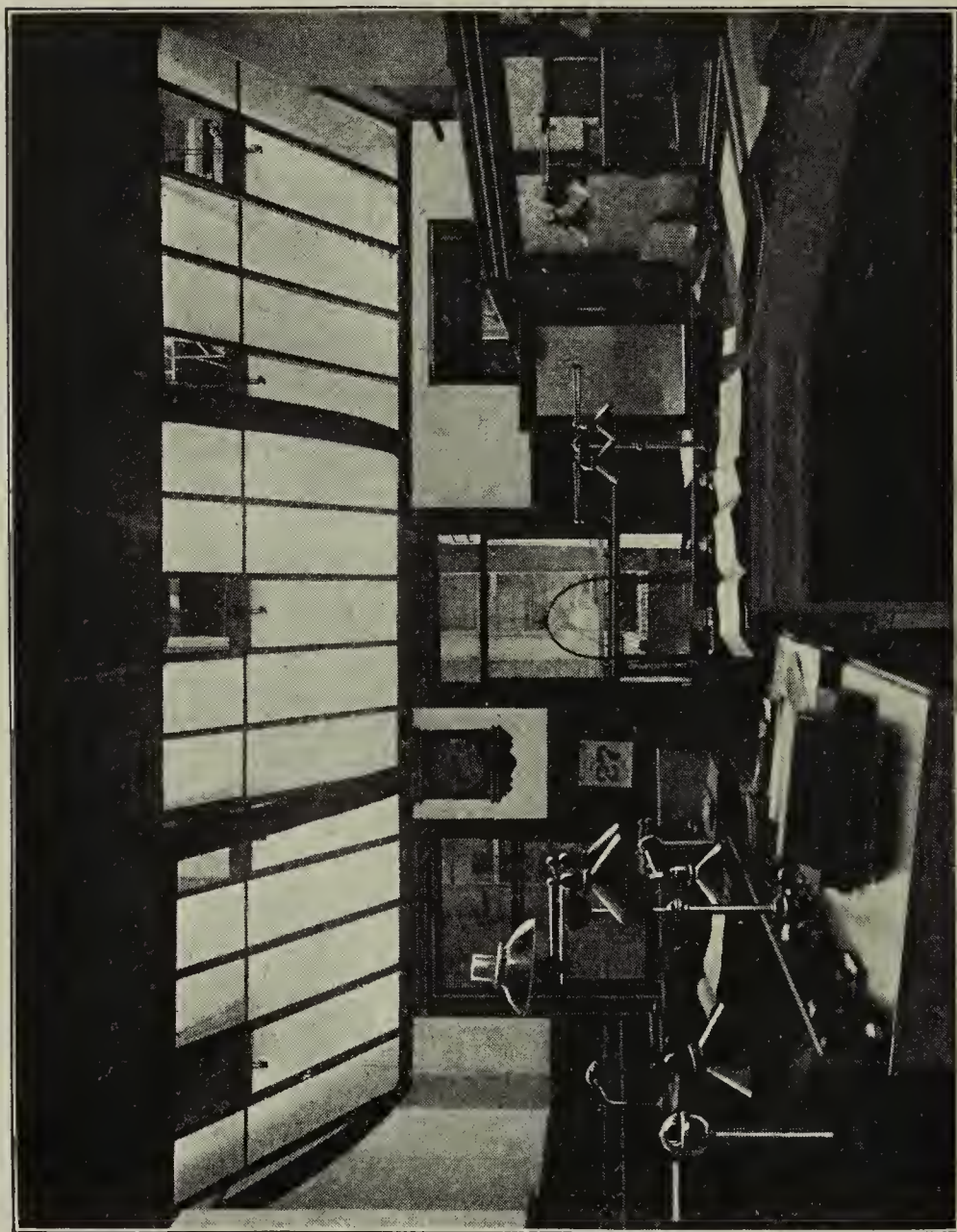
FOR skylights, roofs over areaways, in light-wells, etc., in which it is desired to use prism glass, we furnish Imperial Skylight Prism Plates. This product is not ground or polished and is made with a $\frac{1}{2}$ -inch back besides length of prisms, and thick enough to conform to the requirements of the underwriters.

On account of the large size of the units (18" x 60") and the smooth shape of their borders, the number of joints and the possibility of leakage is reduced to a minimum. The use of these *large sized* Skylight Prism Plates also immensely reduces the cost of the metal construction in which they are placed. The largest Skylight prism plate hitherto manufactured is only 13" x 13". Our unit plates can of course be cut to any smaller size.

They are absolutely the best product on the market for lighting rear parts of deep stores—for roofs of railway stations, sheds, etc. They can be used horizontally, but to give the best effect should be set on an angle of 30° to 45°.

If amount of order warrants expense of die the size of the units in which this glass is now made can be increased either in width or height or both.

18"x60" UNITS

Skylight Prism Plates

Photograph of Imperial Plate Skylight Prisms
in office of L. STRAUSS & SONS
42-46 Warren Street, New York City

Imperial Plate Canopy Prisms

FOR canopies and awnings we make Imperial Plate Canopy Prisms. These are in 18"x20" units, unpolished, and with pressed borders for glazing. The action of these prisms is the same as that of the Skylight Prism Glass but the glass is made much thinner.

NOTE--To get the best results in the use of our canopy or skylight prisms they should be set as follows:

Prism "A" at 30° from the horizontal.
} " "I-A" 45° " " "
{ ("A" angle inverted.)

Mat Surface Backs

We sometimes, upon request put a "mat" or satin ground surface on the back of our prism plates (instead of a polished back). This softens the sunlight and still preserves the prismatic effect of the glass.

Perusal of the foregoing pages will show you how simple a matter it is to select and order Prism Glass. There is no occasion to pay extraordinary prices for so-called engineering. Prism Glass is a staple product and should be sold as such.

Any glazier can set Prism Glass in ordinary sash just as readily as he can set a piece of plate. The only thing necessary is to select the right angle from the foregoing table and in certain cases to make a slight increase in sash-weights. On every piece of glass shipped we place a tag stating plainly, which is the top and which the outside. Even if these tags should become detached, however, anyone can determine by referring to the preceding table just how the glass ought to be set.

All Prism Glass, except the inverted prisms ("I-B" and "I-C"), are set with the shorter angle to the top of the window. Inverted prisms are set with the shorter angle to the bottom of the window.

If your Prism Glass fails to give you good results, examine first if you have the proper prism, by obtaining the quotient "Q" as previously indicated, next examine whether your prisms are properly set as indicated by the preceding instructions.

What Our Prism Glass Does

IT greatly increases the amount of light over that obtained by the use of plain plate or window glass.

It makes possible a reduction of a large percentage in the area of light-wells, which area can be put into valuable store space.

It increases the value of rentals.

It lights up dark corners.

It reduces or cuts out entirely the use of artificial light in the daytime.

It proves a good investment and soon "pays for itself" when properly installed.

Its use is founded on scientific principles.

Its value is recognized as a necessary article in building construction.

With our large polished plates it is easily installed and cleaned.

WRITE FOR PRICES AND SAMPLES.

We also manufacture

a new product
now being largely used

Imperial Plate Ornamental Glass

for

Partitions, Door Lights, Vestibule Doors
and Ornamental Ceiling Lights

for bank and other street windows where semi-
obscurity is desired and for any place where clear,
white light is wanted with ornamental design.

This is Plate Glass with ground and polished
backs and sharp clear patterns and must not be
confused with cheaper grades of rolled glass.

For stock patterns :

Styles O-1 (semi-obscurc)

O-2 (semi-obscurc)

O-3 (transparent)

O-4 (semi-obscurc)

O-5 (semi-obscurc)

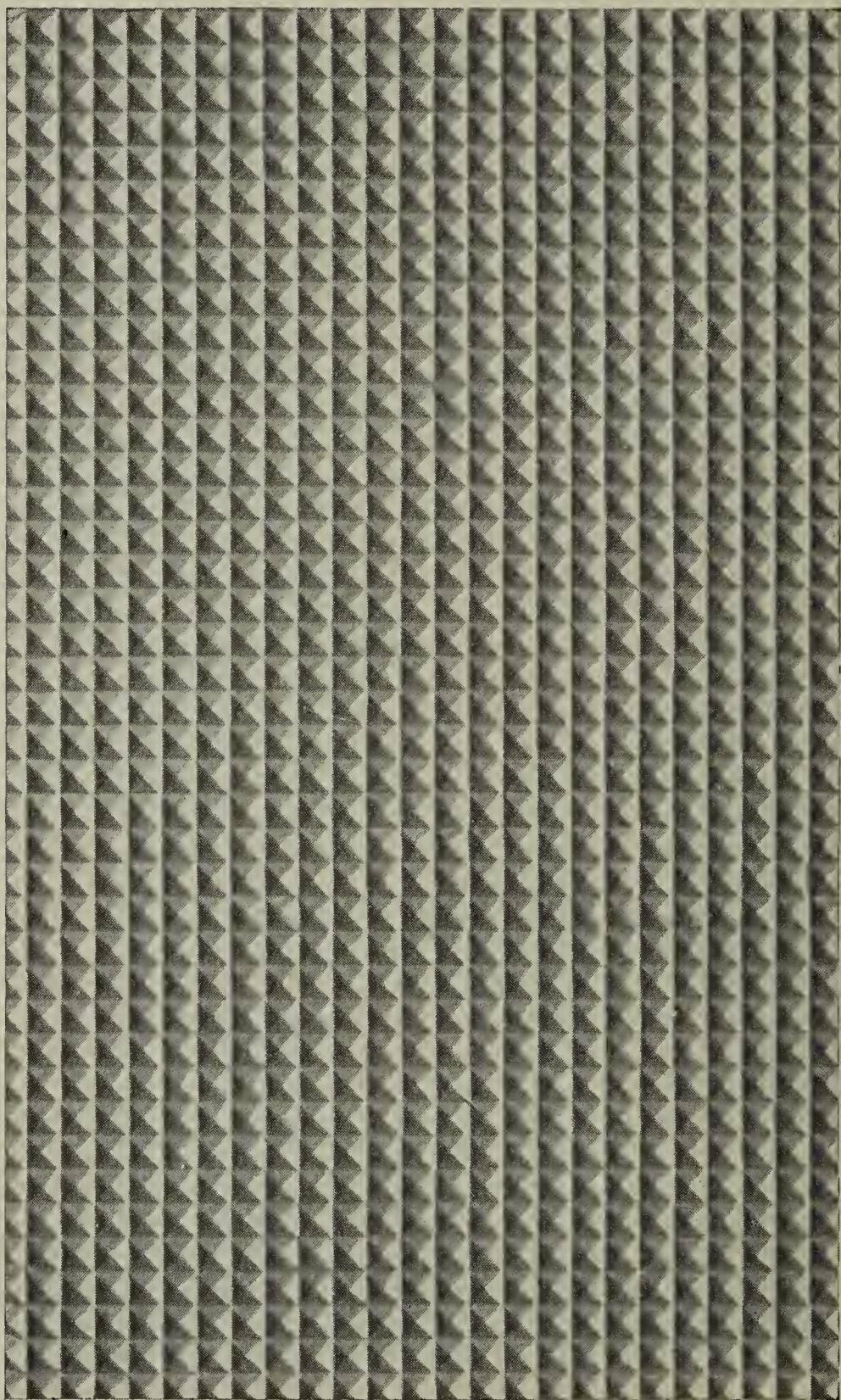
Send for samples.

Special and exclusive designs made if desired.

See following pages of this booklet.

Pressed Prism Plate Glass Co.

Morgantown, W. Va.

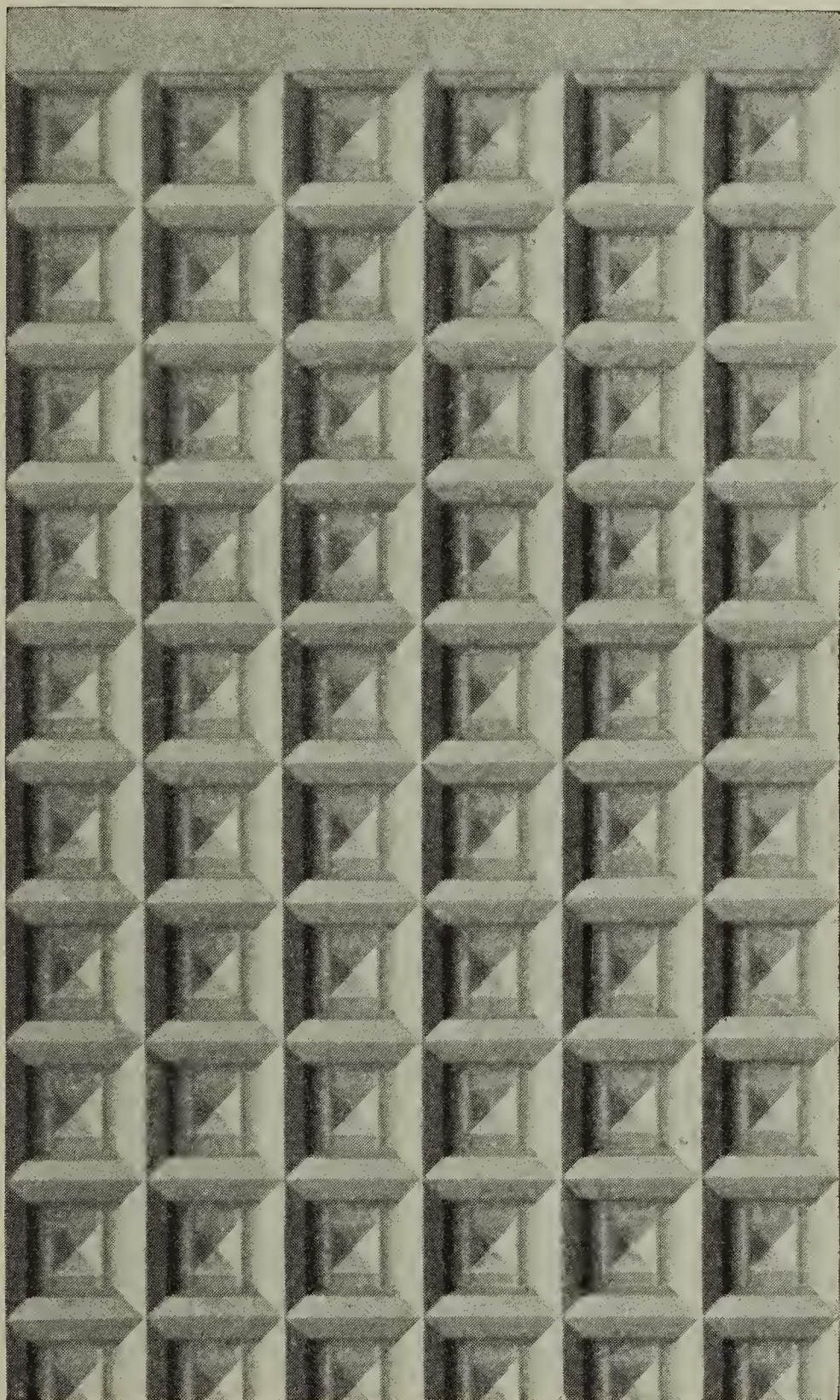


(SEMI-OBSCURE)

“Imperial Plate Ornamental Glass”

**Style O-1. For Door Lights and Partitions,
Ceilings, etc. (See Page 15)**

Ground and polished one side. In cut sizes up to 54" x 72" or in case lots.

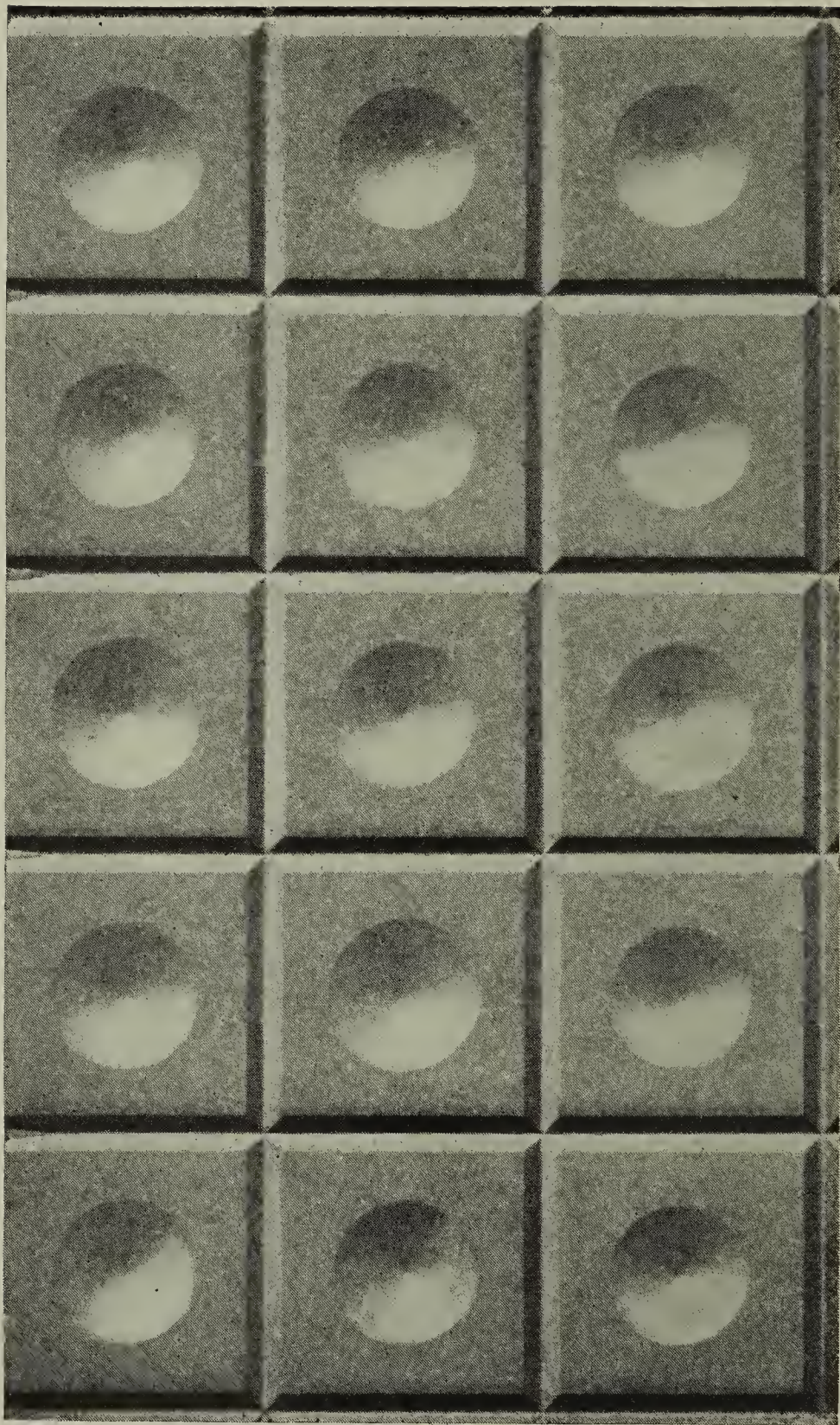


(SEMI-OBSCURE)

“Imperial Plate Ornamental Glass”

Style O-2. For Door Lights and Partitions,
Ceilings, etc. (See page 15)

Ground and polished one side. In cut sizes up to 54" x 72" or in case lots.

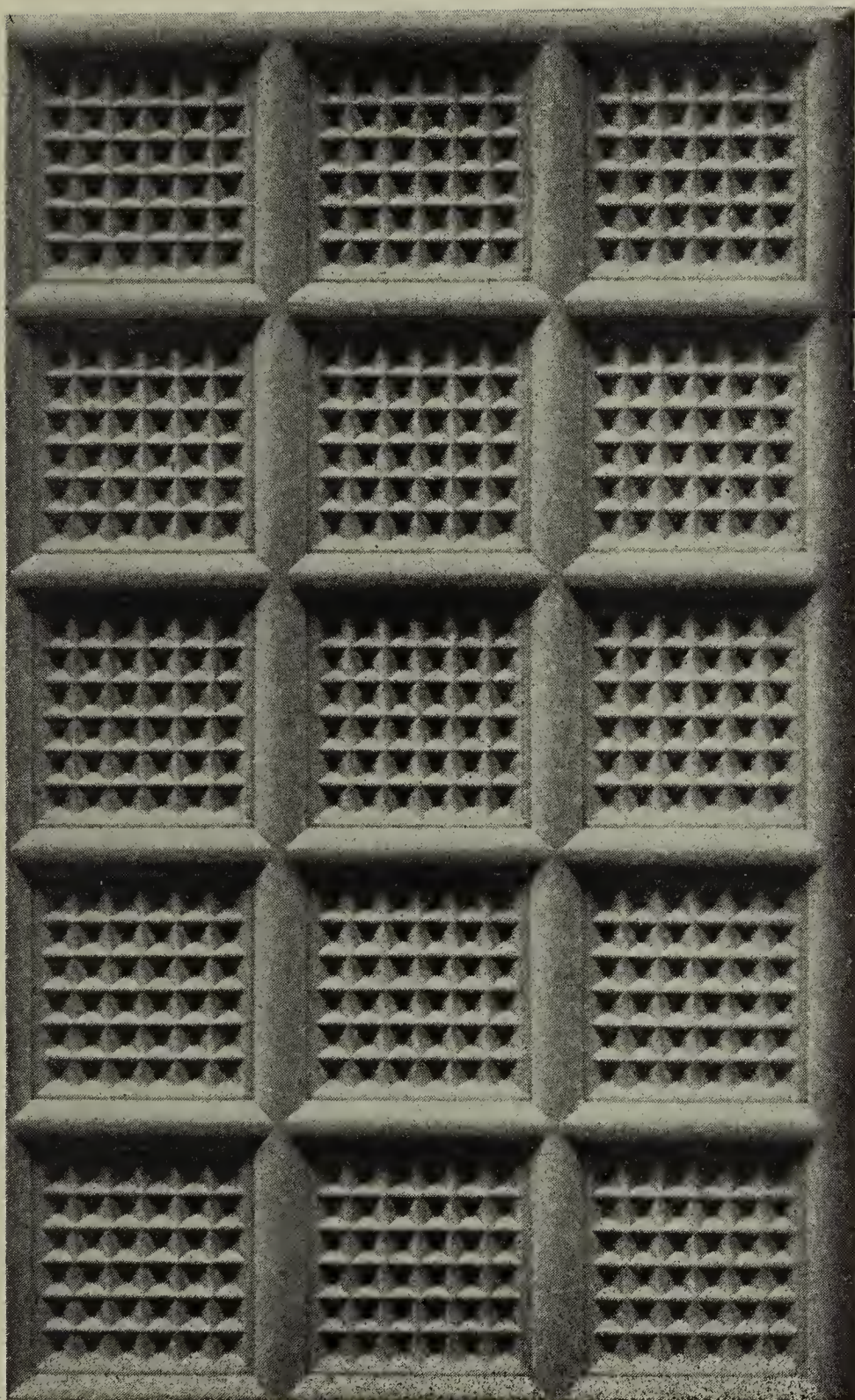


(TRANSPARENT)

“Imperial Plate Ornamental Glass”

**Style O-3. For Door Lights and Partitions,
Ceilings, etc. (See Page 15)**

Ground and polished one side. In cut sizes up to 54" x 72" or in case lots

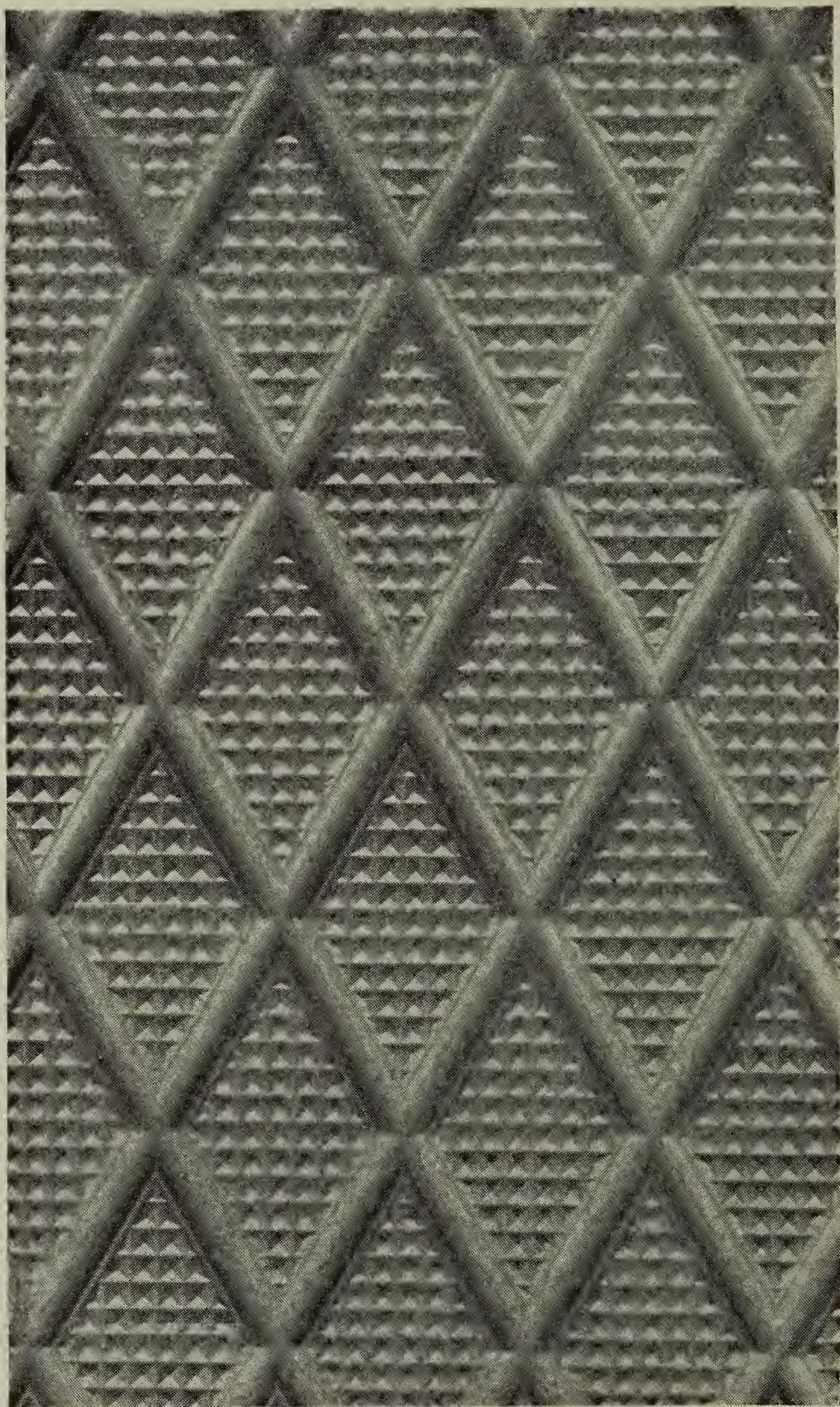


(SEMI-OBSCURE)

"Imperial Plate Ornamental Glass"

Style O-4. For Door Lights and Partitions,
Ceiling, etc. (See Page 15)

Ground and polished one side. In cut sizes up to 54" x 72" or in case lots.



(SEMI-OBSCURE)

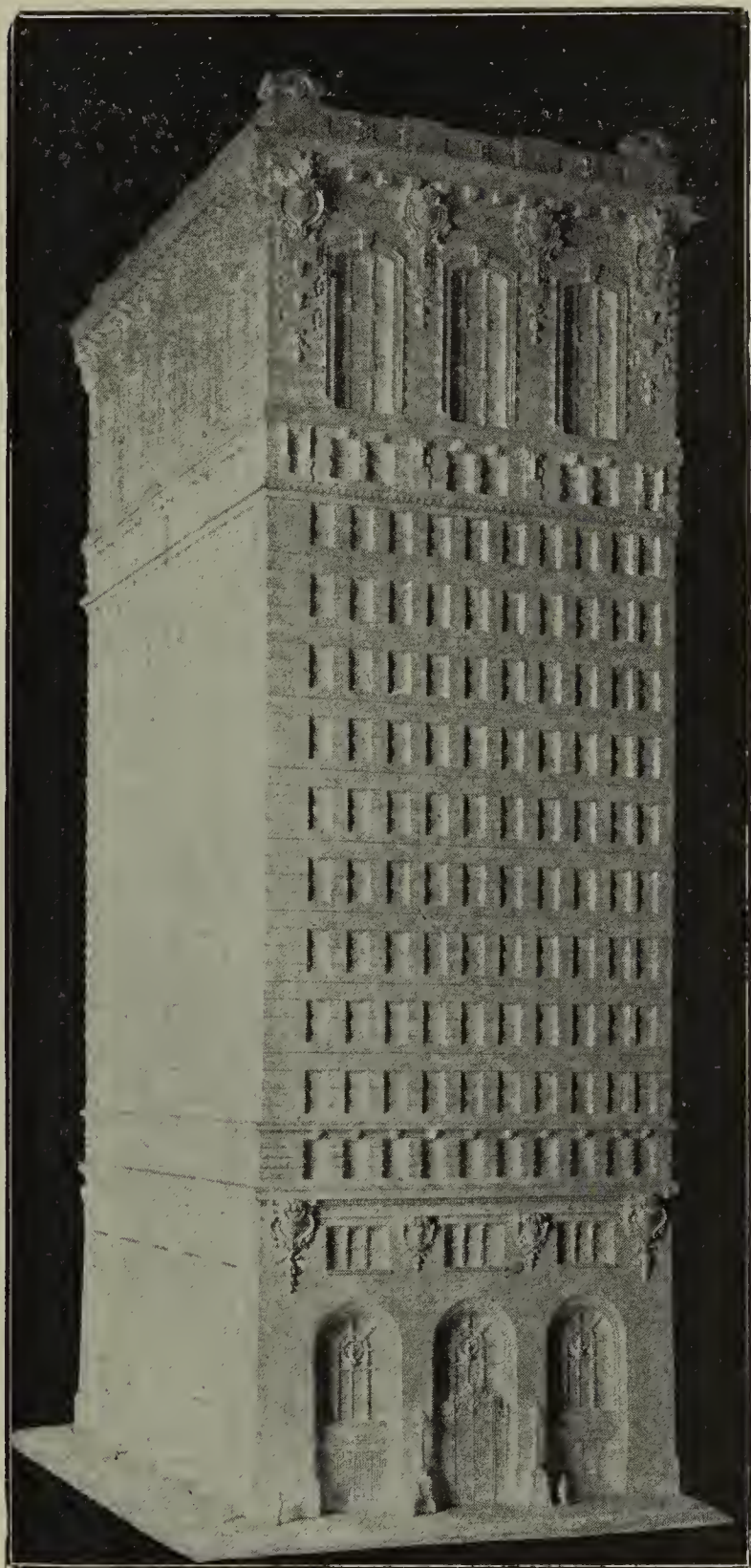
"Imperial Plate Ornamental Glass"

Style O-5. For Door Lights and Partitions,
Ceilings, etc. (See Page 15)

Ground and polished one side.

In cut sizes up to 54" x 72" or 72" x 54" or in case lots.

JARVIS HUNT, Architect, Monadnock Building, Chicago



THE GEORGE A. FULLER CO., Builders, Chicago and New York

AMERICAN TRUST BLDG. Chicago
All interior, "Imperial Plate Ornamental Glass"
Style O-1.

THE COLONY CLUB, New York City

McKIM, MEAD & WHITE, Architects



Imperial Plate Ornamental Glass

Style O-1.

Used in interior above building.

McCreery & Company Building

Wood Street & 6th Avenue, Pittsburg, Pa.

D. H. BURNHAM & CO., Architects

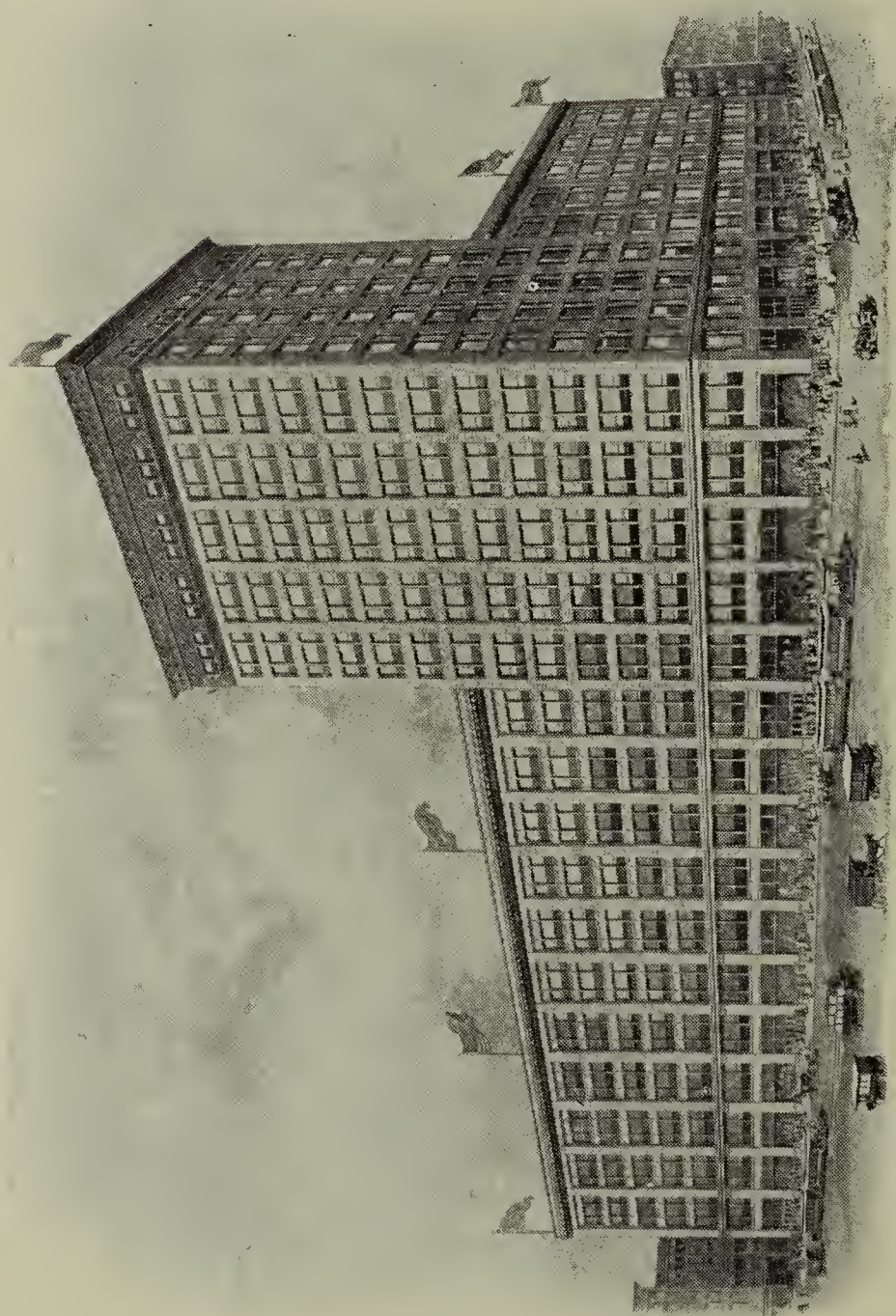


Over 2,500 square feet of our "Imperial Plate Prism Glass" installed in above building, erected and owned by the Oliver Estate, Pittsburg.

Over 3,500 Sq. Ft. Glazed in this Building with our Large
Polished Plates of

"Imperial Plate Prism Glass"

Also used in many other buildings in the United States
and Canada.



THE NEW BOSTON STORE BUILDING, CHICAGO, ILL.

No wires. Few corners. No leaks. Easily cleaned.
Any glazier can set it.

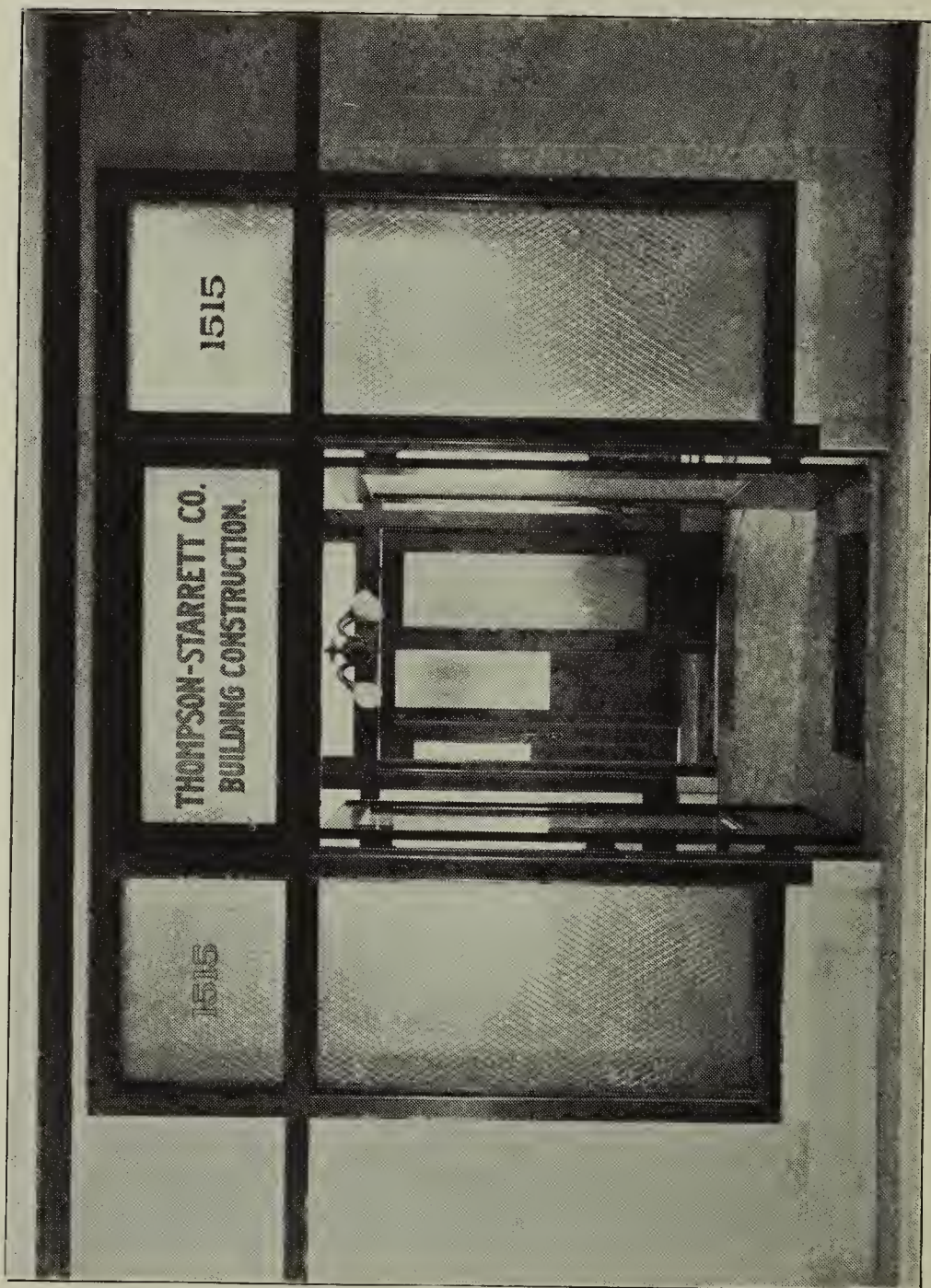
HOLABIRD & ROCHE, Architects.
JOHN GRIFFITHS & SONS, Builders.

Twenty-one story "FISHER BUILDING ANNEX," Chicago
All interior glass Style O-5, "Imperial Plate Ornamental Glass"



P. J. WEBER, Architect, Chicago
THE THOMPSON-STARRETT CO., Builders, Chicago and New York

"Imperial Plate Prism Glass" used in upper
window sash of street windows and
"Imperial Plate Ornamental Glass" for all interior glass



Above cut shows installation of Style O-5
"Imperial Plate Ornamental Glass"
in Fisher Building, Chicago.



MUNICIPAL COURTS BUILDING—CHICAGO

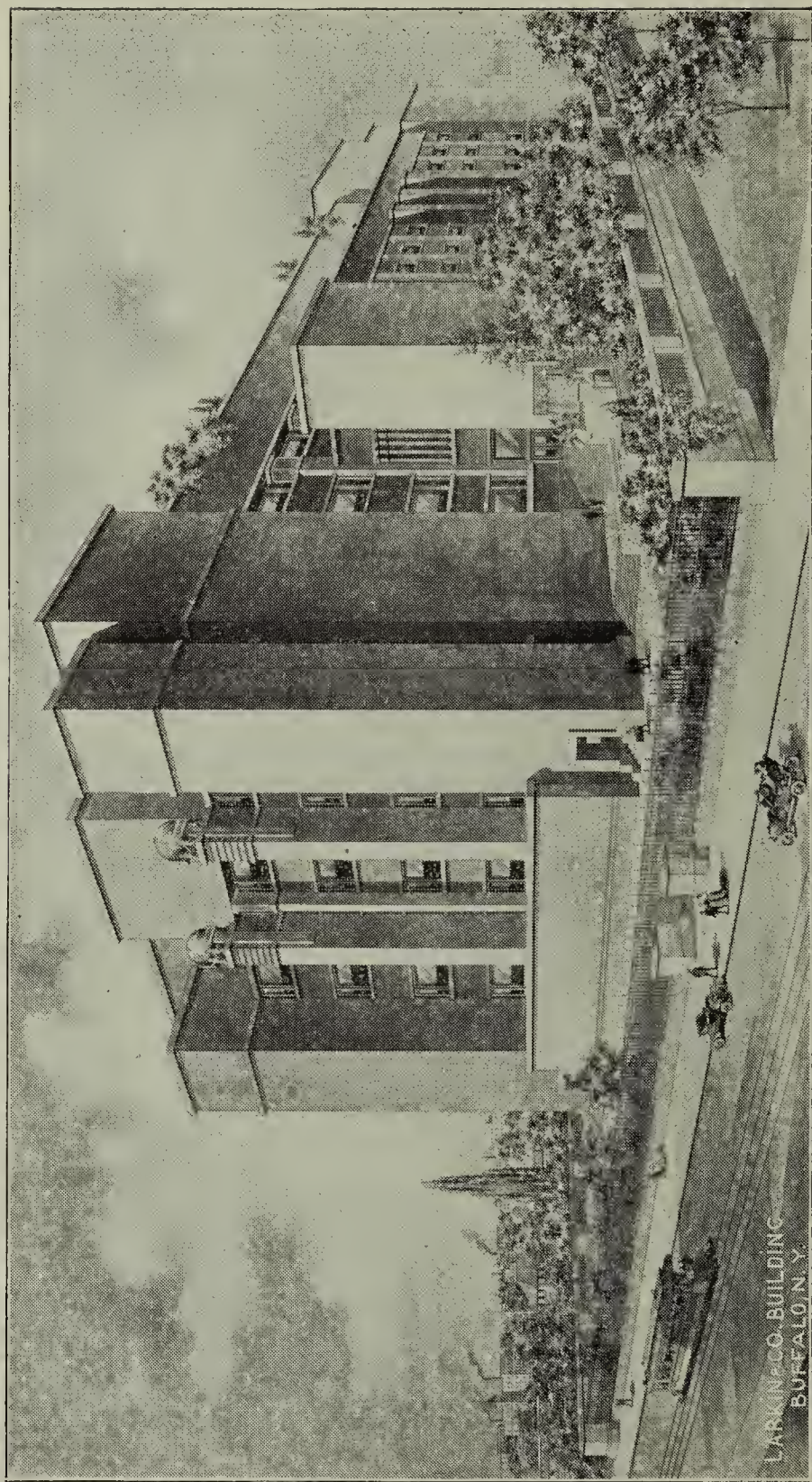
Jenney, Mundie & Jensen, Architects

"The lighting is great"

"Ideal Windows"

"Imperial Plate Prism Glass" used in above
building.

Over 1600 lights used in Ceilings, besides Door Lights, etc. of Style O-2, "Imperial Plate Ornamental Glass"



FRANK LLOYD WRIGHT, Architect. Chicago

PAUL F. P. MUELLER, Builder, Chicago

LARKIN & CO.'S OFFICE BUILDING, Buffalo, New York

Scarritt Building, Kansas City, Mo.

ROOT & SIEMENS, Architects.

Superb lighting.

Ideal Windows.



Door Lights and other Interior Glass of
"Imperial Plate Ornamental Glass"
Style O-2.

Large single lights "Imperial Plate Prism Glass"
used in above building.

THE SMITH-GRAY AND CO., BUILDING
Cor. Broadway & Warren Sts., New York.

James B. Baker, Architect.
Chas. T. Wills, Builder.



Large Lights Imperial Plate Prism Glass
used in the above building.

National Bank of Commerce Building,
Kansas City, Mo.

JARVIS HUNT, Architect

THE GEORGE A. FULLER CO., Builders



Over 20,000 square feet of
Style O-1

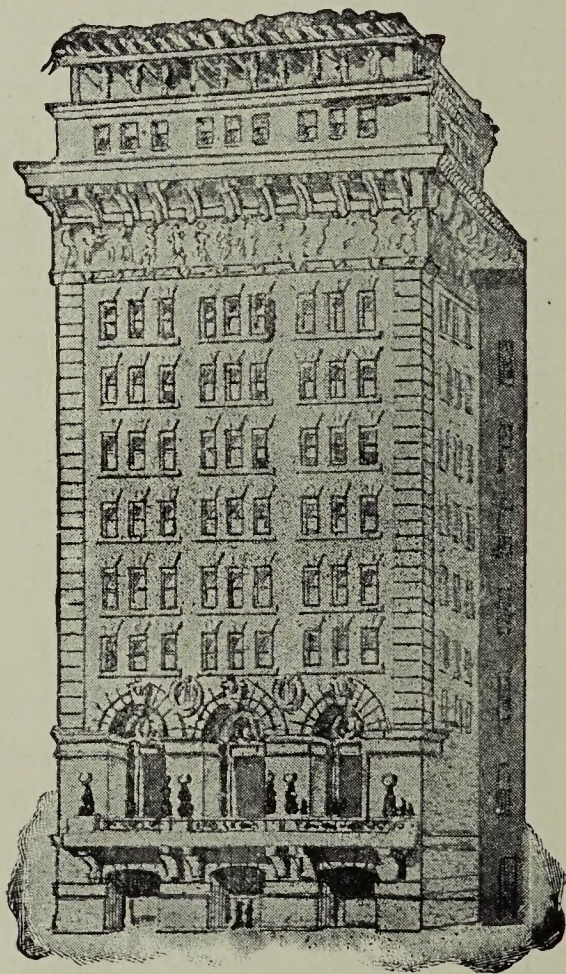
Imperial Plate Ornamental Glass

used in above building for door lights,
partitions, etc.

CHICAGO
ILLINOIS ATHLETIC CLUB BUILDING

BARNETT, HAYNES & BARNETT, Architects
St. Louis and Chicago

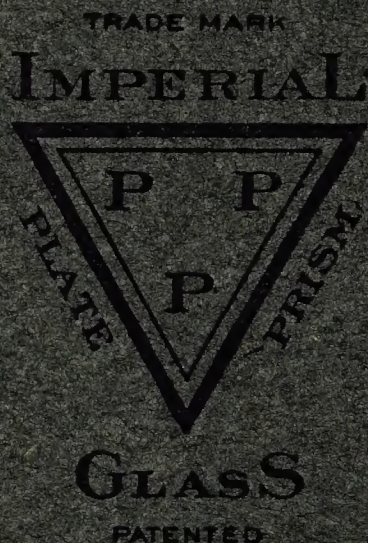
THE THOMPSON-STARRETT CO., Builders



Imperial Plate Ornamental Glass

Style O-5. Used in Doors, Transoms and many
Windows of above Building

Imperial Plate Prism Glass



Imperial Plate Ornamental Glass

Pressed Prism Plate Glass Co.

Morgantown, W. Va.

Chicago Sales Office, 512 Monadnock Bldg.

New York Sales Office, 1170 Broadway.